

SEQUENCE LISTING

<110> BASF Aktiengesellschaft

<120> Plant PRPP amidotransferase

<130> NAE991125

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<170> PatentIn Vers. 2.0

<210> 1

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<212> DNA

<213> Nicotiana tabacum

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<221> CDS

<222> (49)..(1767)

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Leu Ser Pro Lys Thr Leu Pro Lys Pro Tyr Arg Thr Leu Val Thr Ala  
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Glu Val Val Leu His Leu Ile Ala Ile Ser Lys Ala Arg Pro Phe Leu	
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Ser Ile Tyr Leu Met Pro His Pro Glu His Lys Ser Cys Ile Phe Glu	
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Tyr Glu Ser Arg Arg Ala Phe Gly Glu Ile Leu Ala Thr Glu Ala Pro	
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Tyr Gly Val Asp Thr Pro Ser Ser Asp Glu Leu Ile Ser Asn Arg Met	
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Leu Pro Met Asp Ser Leu Asn Lys Leu Leu Gly Asn Asp Ser Lys Ser	
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Lys Val Lys Arg Ile Gly Asp Phe Met Asp Asp Gly Leu Ser Gly Asp	
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Met Asp Ser Ile Asp Gly Gly Trp Leu Pro Gly Ser Ser Arg Val Gln	
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<211> 573

<212> PRT

<213> Nicotiana tabacum

<400> 2

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Lys Ser Ala Asp Asn Thr Leu Asp Ser Tyr Phe Asp Asp Glu Asp Lys  
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Ser Arg Leu Cys Tyr Leu Ala Leu His Ala Leu Leu His Arg Gly Gln  
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Glu Gly Ala Gly Ile Val Ala Val Asn Asp Asp Val Leu Lys Ser Ile  
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Thr Gly Val Gly Leu Val Ser Asp Val Phe Asn Glu Ser Lys Leu Asp  
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Gln Leu Pro Gly Asp Met Ala Ile Gly His Val Trp Tyr Ser Thr Ala  
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Gly Ser Ser Met Leu Lys Asn Val Gln Pro Phe Val Ala Asn Tyr Lys  
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Pro His Gly Phe Arg Pro Leu Val Met Gly Arg Arg Ser Asn Gly Ala  
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Val Val Phe Ala Ser Glu Thr Cys Ala Leu Asp Leu Ile Glu Ala Thr  
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Tyr Glu Arg Glu Val Asn Pro Gly Glu Val Val Val Val Asp Lys Asp  
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Val Val Val Val Asp	Lys Asp Gly Val	Gln Ser Ile Cys	
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Ser Gly Asn Tyr Pro Val Glu Pro Thr Gly Lys Val Lys Arg Ile Gly	
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Asp Phe Met Asp Asp Gly Leu Ser Gly Asp Met Asp Ser Ile Asp Gly	
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Val Arg Thr Ser	
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 Lys Ser Ala Asp Asn Thr Leu Asp Ser Tyr Phe Asp Asp Asp Asp Lys  
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 Pro Arg Glu Glu Cys Gly Val Val Gly Ile Tyr Gly Asp Ser Glu Ala  
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 Ser Arg Leu Cys Tyr Leu Ala Leu His Ala Leu Gln His Arg Gly Gln  
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 Thr Gly Val Gly Leu Val Ser Asp Val Phe Asn Glu Ser Lys Leu Asp  
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 Leu Leu Arg Ser Glu Leu Glu Glu Asn Gly Ser Ile Phe Asn Thr Ser  
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Tyr	Glu	Arg	Glu	Val	Asn	Pro	Gly	Glu	Val	Val	Val	Val	Asp	Lys	Asp	290	295	300
Gly	Val	Gln	Ser	Ile	Cys	Leu	Met	Pro	His	Pro	Glu	Arg	Lys	Ser	Cys	305	310	315
Ile	Phe	Glu	His	Ile	Tyr	Phe	Ala	Leu	Pro	Asn	Ser	Val	Val	Phe	Gly	325	330	335
Arg	Ser	Val	Tyr	Glu	Ser	Arg	Arg	Ala	Phe	Gly	Glu	Ile	Leu	Ala	Thr	340	345	350
Glu	Ala	Pro	Val	Glu	Cys	Asp	Val	Val	Ile	Ala	Val	Pro	Asp	Ser	Gly	355	360	365
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Gln	Gly	Leu	Ile	Arg	Ser	His	Tyr	Val	Gly	Arg	Thr	Phe	Ile	Glu	Pro	385	390	395
Ser	Gln	Lys	Ile	Arg	Asp	Phe	Gly	Val	Lys	Leu	Lys	Leu	Ser	Pro	Val	405	410	415
Arg	Ala	Val	Leu	Glu	Gly	Lys	Arg	Val	Val	Val	Val	Asp	Asp	Ser	Ile	420	425	430
Val	Arg	Gly	Thr	Thr	Ser	Ser	Lys	Ile	Val	Arg	Leu	Leu	Lys	Glu	Ala	435	440	445
Gly	Ala	Lys	Glu	Val	His	Met	Arg	Ile	Ala	Ser	Pro	Pro	Ile	Ile	Ala	450	455	460
Ser	Cys	Tyr	Tyr	Gly	Val	Asp	Thr	Pro	Ser	Ser	Asp	Glu	Leu	Ile	Ser	465	470	475
Asn	Arg	Met	Ser	Val	Glu	Glu	Ile	Lys	Glu	Phe	Ile	Gly	Ser	Asp	Ser	485	490	495
Leu	Ala	Phe	Leu	Pro	Met	Asp	Ser	Leu	Asn	Lys	Leu	Leu	Gly	Asn	Asp	500	505	510
Ser	Lys	Ser	Phe	Cys	Tyr	Ala	Cys	Phe	Ser	Gly	Asn	Tyr	Pro	Val	Glu	515	520	525
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530

535

540

Ser Gly Asp Met Asp Ser Ile Asp Gly Gly Trp Leu Pro Gly Ser Ser  
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